

Operational Test Setup- Boiler OFA & Platen Tests

Load (MWgross) 950

Controls- boiler to local (or manual), Boiler Test Objective is for stable boiler/ throttle pressure and let MWs float.

(throttling control valves okay- this is not a turbine test at valves wide open)

Overfire Air System to manual

Throttle Press & Control Valve Position as needed for load

Main Steam Temp (F) 1005

Main Steam spray (kpph) <200

Hot Reheat Temp (F) 1005

Reheat Sprays (kpph) 0

Bias Dampers (%) may have to take PRH side to manual & set between 30- 45%, to control RH temps

Sootblowing as required to achieve Main Stm, HRH and FEGT temps

No sootblowing (during each test period of 2 hrs), sootblowing is allowed between each test

NOTE: for 950 MWg operation, need to allow SH & RH areas to get dirtier, but blow waterwalls to achieve FEGT (furnace exit gas temp) and EGOT (economizer gas outlet temp)

FEGT target (F) 2200, controlled by waterwall sootblowing

EGOT target (F) 760

O2 levels (measured at boiler outlet with test equipment)

VARIES from 3.5%, 3.0%, & 2.5% at 2 hour increments

Note: there is a discrepancy between station instrumentation and local test analyzers (local reads are higher by 0.5% to 1.0% O2)

Over Fire Air System local control

1/3 & 2/3 port dampers, VARIES from 0% OFA (baseline), both closed or inlet dampers closed
5% (1/3 damper open, 2/3 damper closed, balanced flow all 4 corners)
8% (2/3 damper open, 1/3 damper closed)
12% (2/3 & 1/3 dampers open)

OFA inlet dampers south (SW & SE) dampers throttled ~45% to get balanced N to S flows

NOx level target (#/mbtu) < 0.37

CO (ppm) < 100

Primary Air Duct Press ("wc) 43

Pulverizer Configuration- 7 I/S, U1C o/s (Sec air damper – 10%)

Note- Remove all pulverizer biasing (unless absolutely necessary due to unmanageable coal dribble)

NOTE: U1 H pulverizer should be available from Maintenance around 5/1/03

Need all normally running equipment in-service (7 Pulv, all FD, PA & ID fans, etc.). This ensures good uniform air and gas flow distribution.

No Boiler Blowdown during the testing period

Isolate Unit 1 CRH to aux steam supply and route all building heat (if in service) drains to Unit 2.

Coal Supply – No Westridge coal, need straight SUFCO for best emission results

No Rocks, please